



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC23W100-700	100mA	0.03A	6.0W	0.25-4.60W	0.33-0.68	76%	2.5 -46V	60V Max.
	150mA	0.04A	8.4W	0.37-6.90W	0.35-0.79	82%		
	200mA	0.05A	10.9W	0.50-9.20W	0.37-0.84	84%		
	250mA	0.06A	13.3W	0.62-11.50W	0.40-0.87	86%		
	300mA	0.07A	15.8W	0.75-13.80W	0.43-0.89	87%		
	350mA	0.08A	18.5W	0.87-16.10W	0.45-0.91	87%		
	400mA	0.09A	20.9W	1.00-18.40W	0.47-0.92	88%		
	450mA	0.10A	23.5W	1.12-20.70W	0.48-0.93	88%		
	500mA	0.12A	26.1W	1.25-23.00W	0.50-0.94	88%		
	550mA	0.12A	26.2W	1.37-23.10W	0.52-0.94	88%	2.5 -42V	
	600mA	0.12A	25.9W	1.50-22.80W	0.53-0.94	88%	2.5 -38V	
	650mA	0.12A	26.1W	1.62-22.75W	0.54-0.94	87%	2.5 -35V	
	700mA	0.12A	26.5W	1.75-23.10W	0.56-0.94	87%	2.5 -33V	

* Test result @230V, 50Hz, Full Load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC

	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Input Current	≤0.12A
	Input Power	≤26.5W
	Power Factor	≥0.94 (230VAC, full load)
	THD	≤14% (230VAC, full load)
	No-load Power Consumption	≤0.5W (230VAC, full load)
	Inrush Current	≤7.9A/2.6us (230VAC, full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	24pcs/type A ; 39pcs/type B ; 63pcs/type C 32pcs/type A; 51pcs/type B ; 82pcs/type C 39pcs/type A; 63pcs/type B ; 101pcs/type C 49pcs/type A; 79pcs/type B ; 126pcs/type C
Output	Output Voltage Range	2.5-46VDC@100-500mA, 2.5-42VDC@550mA, 2.5-38VDC@600mA, 2.5-35VDC@650mA 2.5-33VDC@700mA
	No Load Voltage	60VDC Max.
	Output Current	100-700mA (Factory set current of 100mA)
	Max. Output Power	23.1W
	Efficiency	≥88% 230VAC, full load
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤ 1
	SVM	≤ 0.4
Protection	Starting Time (AC mode)	≤0.5S (230VAC, full load)
	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
Environment	Leakage current	< 700μA, I/P to O/P @230V input
	Ta/Operation Temperature	-20....+50℃
	Ts/Storage Temperature	-20....+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
Construction	Atmosphere	86-108KPa
	Installation	Built-in / Independent
	PRI Wire preparation	0.5-1.5 [□] / 8-9mm
	SEC Wire preparation	0.5-1.5 [□] / 8-9mm
	Dimension	103.4*30*21mm (L*W*H)

Standards	Certification	CE/ENEC/SAA/UKCA/EAC/CB
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021; BS EN61347-2-13:2014/A1:2017; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016;
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019;
	Performance	EN 62384
	Surge	L/N-Ground:2kV; L-N:1kV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h Tc=85℃
		75000h Tc=80℃
		100000h Tc=75℃
	Warranty	5years, F.R. <10000ppm

Remark:

- 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
- 2.LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

2. Label




KGP Electronics GmbH CC23W100-700 LED Driver
 Hueckstraße 19
 DE-58511 Lüdenscheid

Constant Current Type for operation with LED modules only
 PRI:220-240VAC 0/50/60Hz Max. 0.16A U-OUT:60V
 SEC:100-700mA 2.5-46VDC●tc=85℃ ta=50℃

Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
4.6	100	0.33C-0.68C	-	-	-	-	20.7	450	0.48C-0.93C	-	ON	ON	ON
6.9	150	0.35C-0.79C	-	-	-	ON	23.0	500	0.50C-0.94C	ON	-	-	-
9.2	200	0.37C-0.84C	-	-	ON	-	23.1	550	0.52C-0.94C	ON	-	-	ON
11.5	250	0.40C-0.87C	-	-	ON	ON	22.8	600	0.53C-0.94C	ON	-	-	-
13.8	300	0.43C-0.89C	-	ON	-	-	22.7	650	0.54C-0.94C	ON	-	ON	ON
16.1	350	0.45C-0.91C	-	ON	-	ON	23.1	700	0.56C-0.94C	ON	ON	-	-
18.4	400	0.47C-0.92C	-	ON	ON	-	Range of application:180-280VDC						

☐ N ☐ L ☐ PE
☐ R ☐ B ☐ G















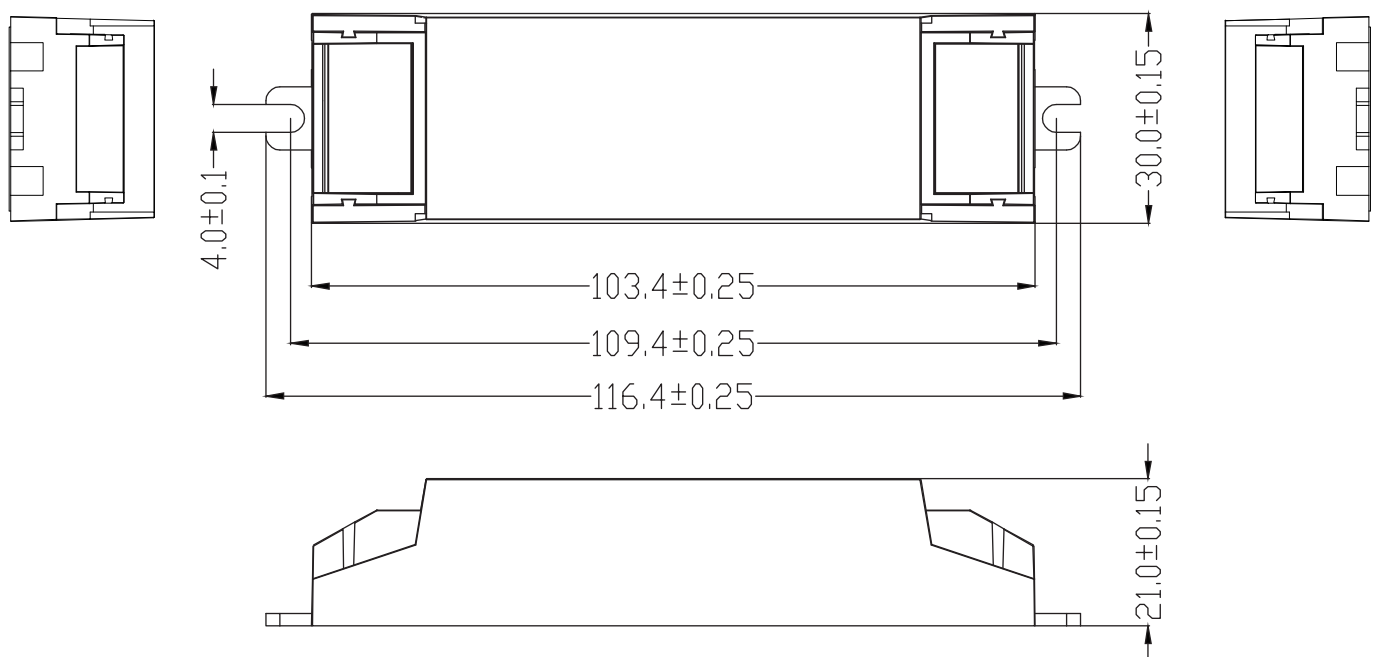


3. Output Current Setting

Output Current	1	2	3	4
100mA	-	-	-	-
150mA	-	-	-	ON
200mA	-	-	ON	-
250mA	-	-	ON	ON
300mA	-	ON	-	-
350mA	-	ON	-	ON
400mA	-	ON	ON	-
450mA	-	ON	ON	ON
500mA	ON	-	-	-
550mA	ON	-	-	ON
600mA	ON	-	ON	-
650mA	ON	-	ON	ON
700mA	ON	ON	-	-

4. Dimension (Unit: mm)

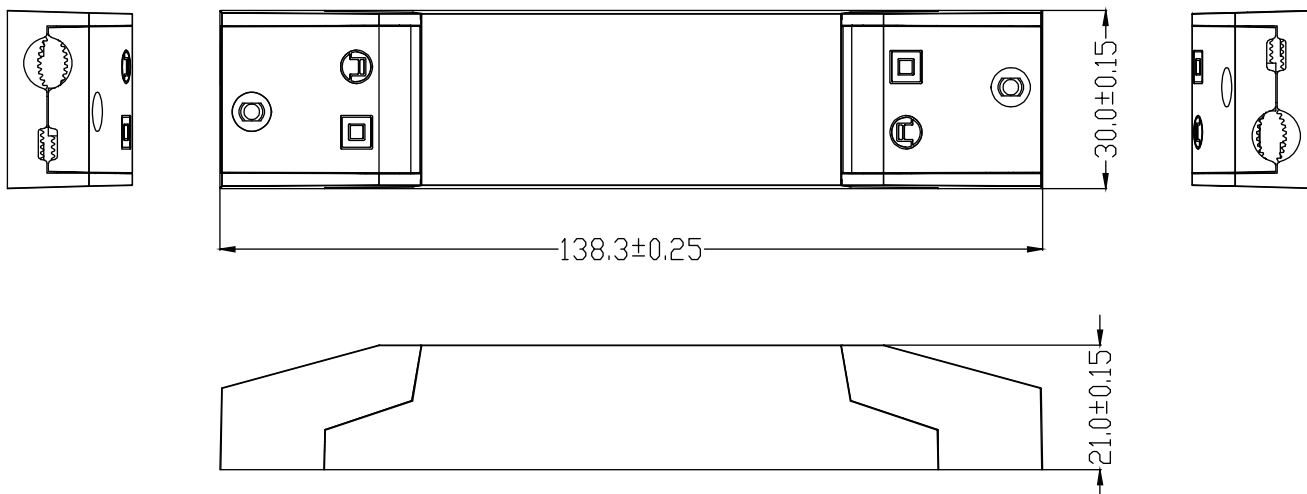
Built in type:



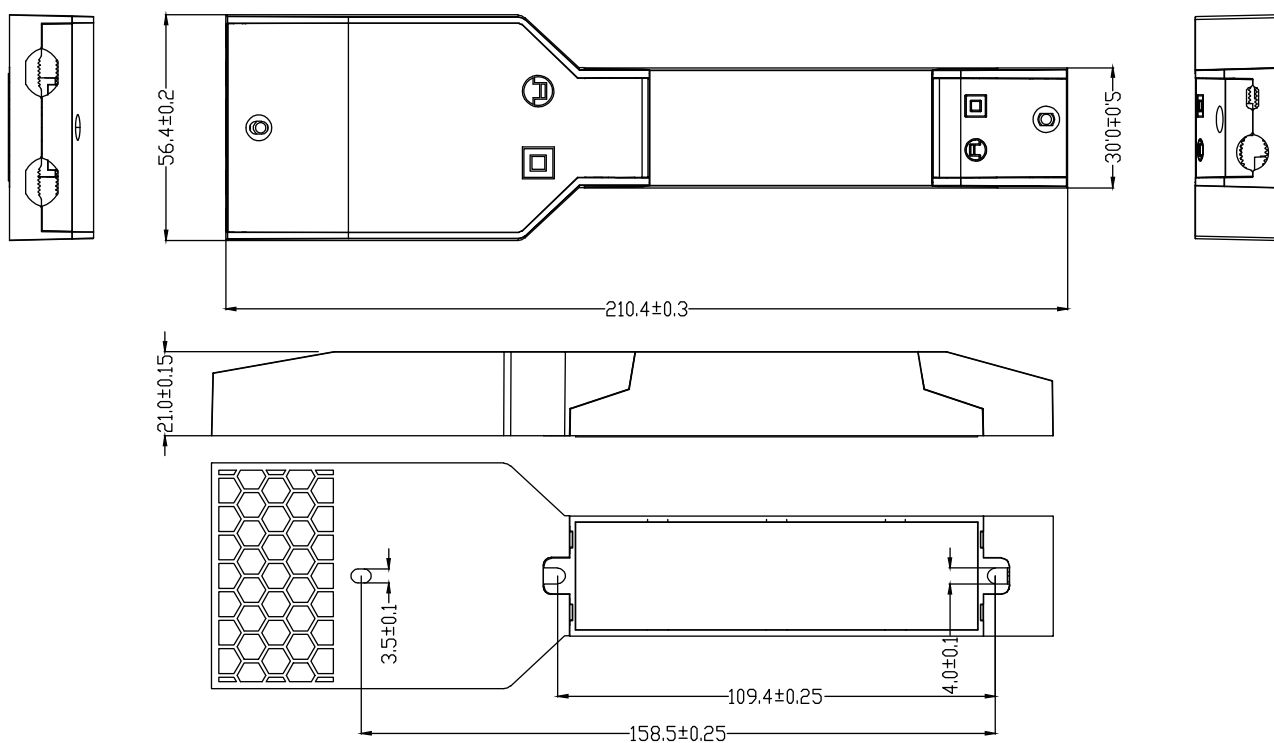
Compatible Small Strain reliefs:SR_CC15-23-36

Compatible Large Strain reliefs:SR_CC15-23-36_3POL

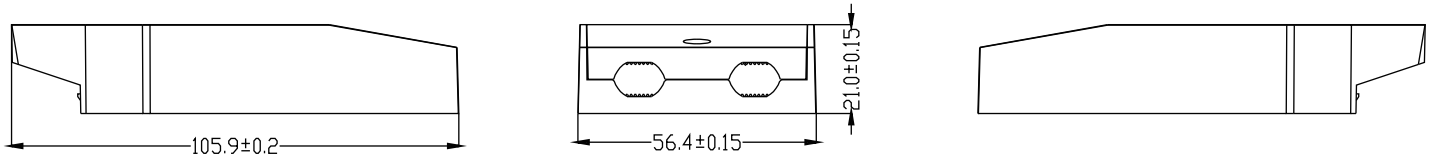
Small Strain reliefs



Large Strain reliefs



Large Strain reliefs specifications



Tolerance for dimensions ± 0.1 mm

Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 55.4-57.4 x 20.0-22.0 mm

Wire size: 0.5 - 2.5 mm²

Ambient temperature range: -20...+50 °C

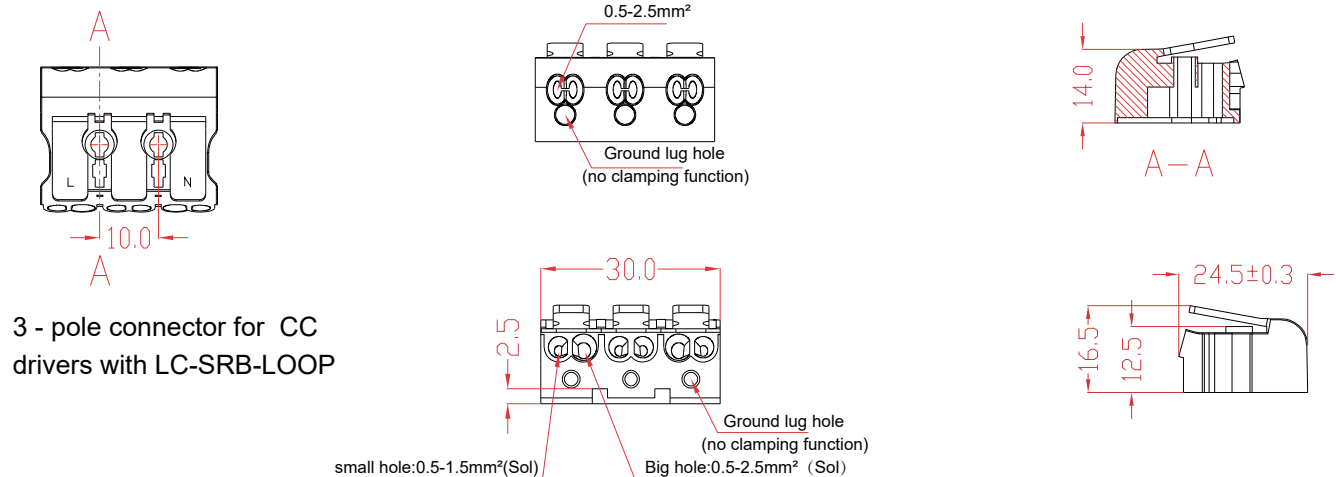
Storage temperature range: -20...+85 °C

Assembly temperature range: +5...+30 °C

Do not store in wet or humid environment!

* Unless otherwise stated in the driver datasheet (for independent installation).
Note! T_c max temperature of the driver shall not be exceeded.

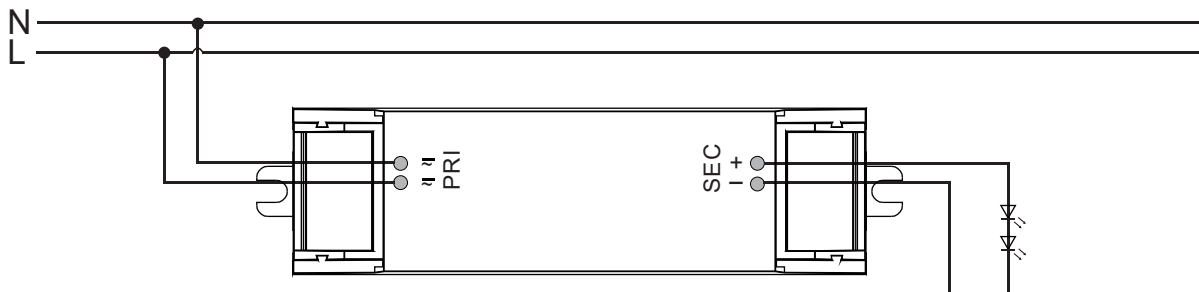
Terminal



3 - pole connector for CC drivers with LC-SRB-LOOP

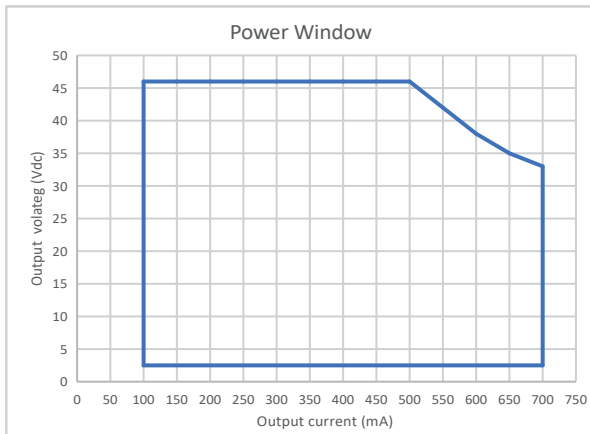
5. Wiring Diagram

220-240 V
0/50/60 Hz

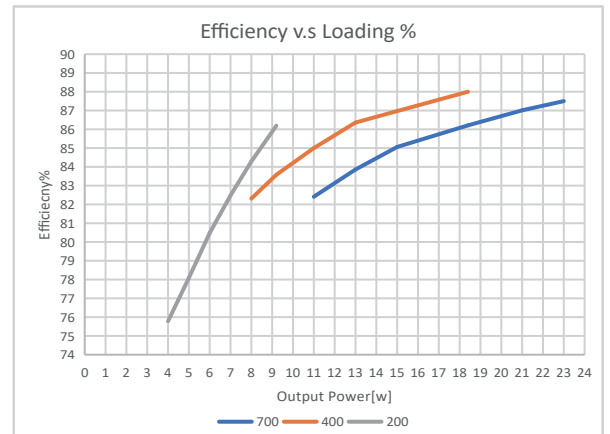


6. Electrical values

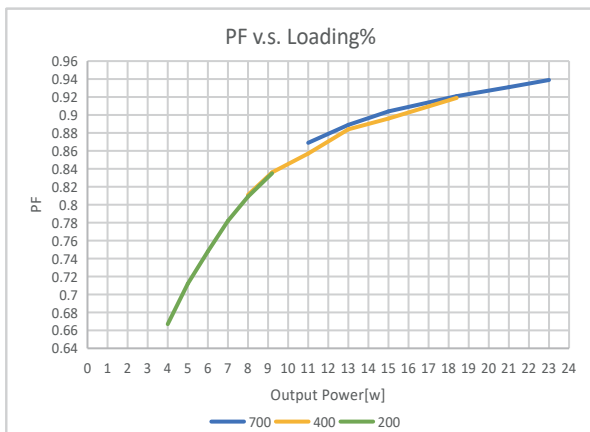
1. Operating power windows



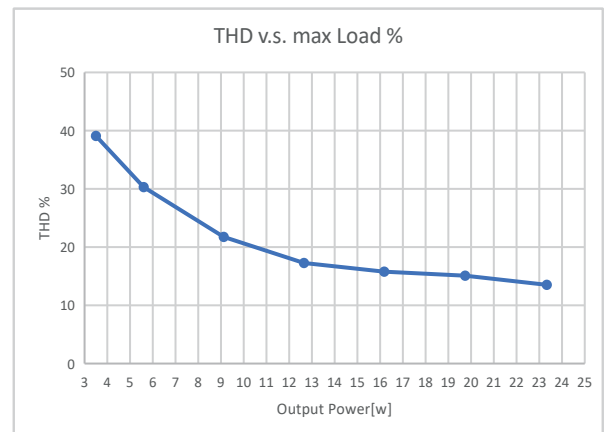
2. Efficiency v.s. Load



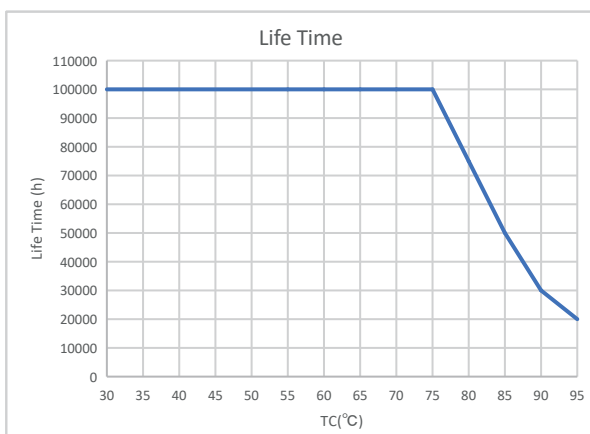
3. PF v.s. Load



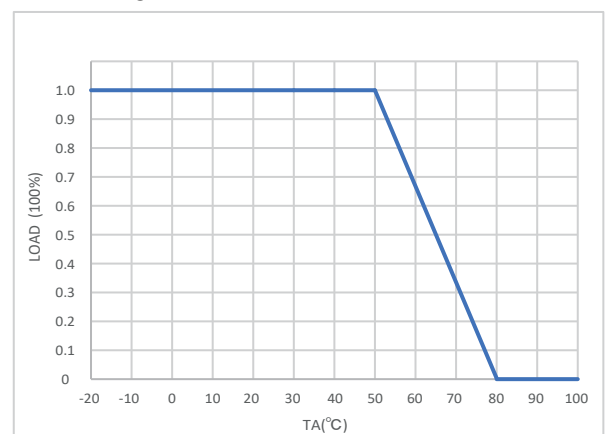
4. THD v.s. Load



5. Life time

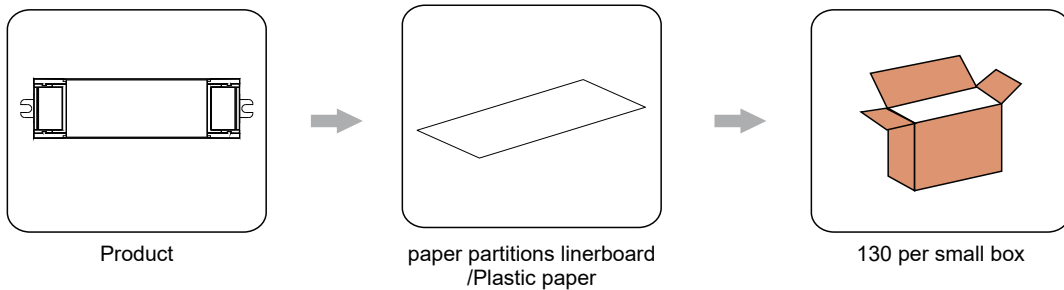


6. Derating



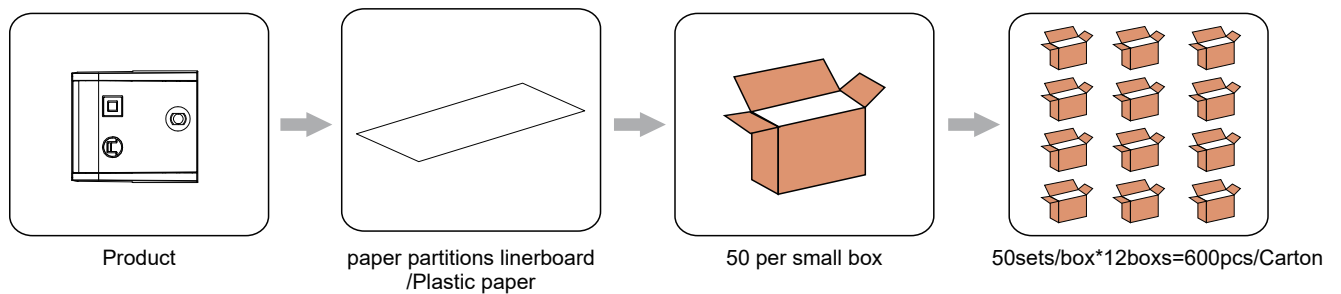
7. Packing information

Built in type



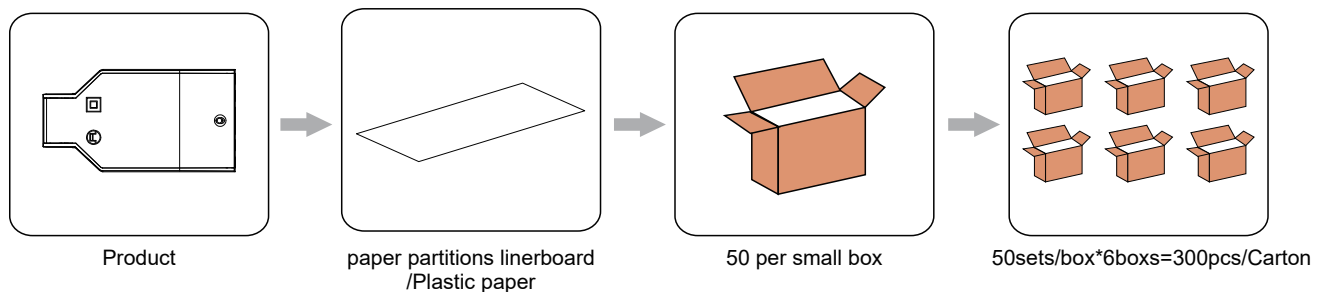
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	130	0.072	9.36	9.86

Small Strain reliefs



Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
500*195*245	600	0.007	4.26	5.56

Large Strain reliefs



Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
375*315*385	300	0.041	12.34	13.9

8. REVISION HISTORY

Date	Revision	Remark
2023.10.07	V0.01	update images
2024.04.15	V0.02	Label, Packing information, Electrical values, Dimension, update images
2024.09.15	V0.03	Label, Packing information, Parameters, Dimension, update images
2024.12.02	V0.04	Label, Parameters, Electrical values, update images
2025.01.18	V0.05	Label, update images